Whole No. 291

CONTENTS

PAGE

The Seattle Meeting of the San Francisco Section. By Professor E. T. Bell - - - - - - - - - - - 1

Note on a Generalization of a Theorem of Baire. By Professor E. W. Chittenden - - - - - - - - - 5

Certain Iterative Characteristics of Bilinear Operations. By Dr. Norbert Wiener - - - - - - - - - 6

Necessary and Sufficient Conditions that a Linear Transformation be Completely Continuous. By Professor C. A. Fischer - 10

On the Relation of the Roots and Poles of a Rational Function to the Roots of its Derivative. By Mr. B. Z. Linfield - 17

Moritz Cantor, the Historian of Mathematics. By Professor Florian Cajori - - - - - - - - - - 21

Shorter Notices - - - - - - - - - - - - 28

Notes - - - - - - - - - - - - - 39

New Publications - - - - - - - - - - 46

Whole No. 292

CONTENTS

PAGE

The Twenty-Seventh Summer Meeting of the American Mathematical Society. By Professor Arnold Dresden - - 49

The Chicago Colloquium. By Professor W. A. Hurwitz - 65

Note on Velocity Systems in Curved Space of n Dimensions. By Professor Joseph Lipka - - - - - - - 71

Augustus De Morgan on Divergent Series. By Professor Florian Cajori - - - - - - - - - - - 77

Russell's Introduction to Mathematical Philosophy. By Dr. G. A. Pfeiffer - - - - - - - - - - 81

Notes - - - - - - - - - - - - - 91

New Publications - - - - - - - - - - 94

Whole No. 293

CONTENTS

PAGE

The October Meeting of the American Mathematical Society. By Professor F. N. COLE - - - - - - - - - 97

The Mathematical Congress at Strasbourg. By Professor D. E. SMITH - - - - - - - - - - - - 104

Note on a Method of Proof in the Theory of Fourier's Series. By Professor DUNHAM JACKSON - - - - - - - 108

On Implicit Functions. By Mr. F. H. MURRAY - - - 111

On a Pencil of Nodal Cubics. Second Paper. By Professor NATHAN ALTSHILLER-COURT - - - - - - - 114

Hausdorff's Grundzüge der Mengenlehre. By Professor HENRY BLUMBERG - - - - - - - - - - 116

Shorter Notices - - - - - - - - - - 129

Notes - - - - - - - - - - - - 137

New Publications - - - - - - - - - 145

Whole No. 294

CONTENTS

PAGE

The October Meeting of the San Francisco Section. By Professor B. A. BERNSTEIN - - - - - - - - 149

An Image in Four-Dimensional Lattice Space of the Theory of the Elliptic Theta Functions. By Professor E. T. BELL - 153

Note on the Median of a Set of Numbers. By Professor DUNHAM JACKSON - - - - - - - - - - 160

Note on Closure of Orthogonal Sets. By Professor O. D. KELLOGG 165

The Mathematical Work of Thomas Jan Stieltjes. By Professor R. D. CARMICHAEL - - - - - - - - 170

Shorter Notices - - - - - - - - - - 178

Notes - - - - - - - - - - - - 187

New Publications - - - - - - - - - 194

Whole No. 295

CONTENTS

PAGE

The Thirteenth Regular Meeting of the Southwestern Section. By Professor LOUIS INGOLD - - - - - - - 197

A Remark on Skew Parabolas. By Professor GINO LORIA - 201

The Pseudo-Derivative of a Summable Function. By Professor WILLIAM L. HART - - - - - - - - 202

Note on Minimal Varieties in Hyperspace. By Professor C. L. E. MOORE - - - - - - - - - - 211

Notes on Electrical Theory. By Professor H. BATEMAN - - 217

Shorter Notices - - - - - - - - - - 225

Notes - - - - - - - - - - - - 237

New Publications - - - - - - - - - 242

Whole No. 296

CONTENTS

PAGE

The Twenty-seventh Annual Meeting of the American Mathematical Society. By Professor R. G. D. RICHARDSON - - 245

Reciprocal Subgroups of an Abelian Group. By Professor G. A. MILLER - - - - - - - - - - - 266

Proof of an Arithmetic Theorem due to Liouville. By Professor E. T. BELL - - - - - - - - - - - 273

A Sequence of Polynomials connected with the nth Roots of Unity. By Dr. T. H. GRONWALL - - - - - - 275

The Minimum Area between a Curve and its Caustic. By Professor P. R. RIDER - - - - - - - - - 279

Shorter Notices - - - - - - - - - - 284

Notes - - - - - - - - - - - - 286

New Publications - - - - - - - - - 289

Whole No. 297

CONTENTS

PAGE

The Chicago Meeting of the Society. By Professor ARNOLD DRESDEN - - - - - - - - - - - 293

Pleasant Questions and Wonderful Effects. Presidential Address. By Professor FRANK MORLEY - - - - - - - 309

Fallacies and Misconceptions in Diophantine Analysis. By Professor L. E. DICKSON - - - - - - - 312

On the Fourier Coefficients of a Continuous Function. By Dr. T. H. GRONWALL - - - - - - - - - . 320

Extension of an Existence Theorem for a Non-self-adjoint Linear System. By Professor H. J. ETTLINGER - - - 322

On the Cauchy-Goursat Theorem. By Professor R. L. BORGER 325

On a General Arithmetic Formula of Liouville. By Professor E. T. BELL - - - - - - - - - - - 330

Shorter Notices - - - - - - - - - - - 332

Notes - - - - - - - - - - - - - 336

New Publications - - - - - - - - - 337

Whole No. 298

CONTENTS

PAGE

The February meeting of the American Mathematical Society. By Professor R. G. D. RICHARDSON - - - - - 341

Note on Equal Continuity. By Dr. J. F. RITT - - - 351

A New Method in Diophantine Analysis. By Professor L. E. DICKSON - - - - - - - - - - 353

The Transformation of Elliptic Integrals. By Professor J. H. MCDONALD - - - - - - - - - - - 366

Bachmann on Fermats Last Theorem. By H. S. VANDIVER - 373

Two Books About Airplanes. By E. W. BROWN - - - 377

Shorter Notices - - - - - - - - - - 382

Notes - - - - - - - - - - - - - 383

New Publications - - - - - - - - - 386

Whole Nos. 299-300

CONTENTS

PAGE

The April Meeting of the American Mathematical Society. By Professor R. G. D. RICHARDSON 389

The Easter Meeting of the Society at Chicago. By Professor ARNOLD DRESDEN 401

The April Meeting of the San Francisco Section. By Professor B. A. BERNSTEIN 411

The General Theory of Approximations by Polynomials and Trigonometric Sums. By Professor DUNHAM JACKSON 415

The Einstein Solar Field. By Professor L. P. EISENHART 432

A Covariant of Three Circles. By Professor A. B. COBLE 434

On Skew Parabolas. By DR. MARY F. CURTIS 437

The Dispersion of Observations. By Professor J. L. COOLIDGE 439

The Isomorphisms of Complex Algebra. By Professor NORBERT WIENER 443

On the Generalizations of Certain Formulas in the Mathematical Theory of Finance. By Professor C. H. FORSYTH 446

The Spread of the Newtonian and the Leibnizian Notations of the Calculus. By Professor FLORIAN CAJORI 452

Group Theory Reviews in the Jahrbuch über die Fortschritte der Mathematik. By Professor G. A. MILLER 459

Recent Books on Vector Analysis. By Professor J. B. SHAW 463

Shorter Notices 466

Errata 487

Notes 488

New Publications 496

Thirtieth Annual List of Papers 500

Index of Volume XXVII 508

Official Announcements are printed on the inside of back cover.